

b3  
cont  
a1  
cont

a second pair of rotatable eccentric weights coupled to said bed, each said rotatable eccentric weight of said first pair of rotatable eccentric weights and of said second pair of rotatable eccentric weights being free-wheeling with respect to one another;

whereby rotation of said first pair of rotatable eccentric weights and rotation of said second pair of rotatable eccentric weights cause said bed to vibrate.

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Sub  
b4  
a2

12. (Amended) A vibratory conveying apparatus for conveying material including:  
a bed on which the material is conveyed;  
a counterbalance;  
a plurality of stabilizer members, each said stabilizer member having a first end attached to said bed, a second end attached to said counterbalance and a longitudinal axis, said longitudinal axes of said stabilizer members being generally parallel to one another;

a first pair of rotatable eccentric weights rotatably attached to said counterbalance; and  
a second pair of rotatable eccentric weights rotatably attached to said counterbalance, each said rotatable eccentric weight of said first pair of rotatable eccentric weights and of said second pair of rotatable eccentric weights being free-wheeling with respect to one another;

whereby rotation of said first pair of rotatable weights and rotation of said second pair of rotatable weights cause said bed to vibrate.

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Sub  
b5  
a3

15. (Amended) A method of vibrating a conveying apparatus to convey material including the steps of:

providing a bed having an inlet end and an outlet end on which material is adapted to be conveyed;

b5  
cont'd  
a3  
cont'd

providing a plurality of drive springs, each drive spring having a first end attached to said bed and a second end attached to a support;

providing a plurality of pairs of vibratory motors, each vibratory motor having a rotatable eccentric weight, each said eccentric weight being free-wheeling with respect to one another, each said vibratory motor adapted to operate at an operating speed;

operating said vibratory motors to rotate said eccentric weights and thereby vibrate said bed at a vibration frequency; and

operating said vibratory motors at a selected operating speed which approaches being equal to, or is less than, the natural frequency of said drive springs which are vibrating said bed.

Sub  
b6  
a4

17. (Amended) The method of claim 15 including the step of adjusting the vibration frequency of said bed by use of an electrical control connected to said vibratory motors for simultaneously changing the rotational speed of said vibratory motors.

18. (Amended) The method of claim 15 including the step of adjusting the operating stroke and frequency of said drive springs and stabilizer members by use of an electrical control connected to said vibratory motors for simultaneously changing the rotational speed of said vibratory motors.

In the drawings:

Attached are red-marked drawings of Figures 1 and 3 showing the addition of the legend "Prior Art."